

Rec'd PCT/PTO 09 SEP 2004

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

10/507164

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
25 September 2003 (25.09.2003)

PCT

(10) International Publication Number  
WO 03/078465 A1

(51) International Patent Classification<sup>7</sup>: C07K 14/71,  
A61K 39/00, G01N 33/53, C07K 16/28

Ann [GB/GB]; AstraZeneca R & D Alderley, Alderley  
Park, Macclesfield, Cheshire SK10 4TG (GB).

(21) International Application Number: PCT/GB03/00991

(74) Agent: ASTRAZENECA; Global Intellectual Property,  
Mereside, Alderley Park, Macclesfield, Cheshire SK10  
4TG (GB).

(22) International Filing Date: 11 March 2003 (11.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0206072.1 15 March 2002 (15.03.2002) GB

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,  
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,  
UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for AE, AG, AL, AM, AT, AU, AZ, BA, BB, BE,  
BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CY, CZ, DE,  
DK, DM, DZ, EC, EE, ES, FI, FR, GB, GD, GE, GH, GM,  
GR, HR, HU, ID, IE, IL, IN, IS, IT, JP, KE, KG, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MC, MD, MK, MN,  
MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC,  
SD, SE, SG, SK, SL, SZ, TJ, TM, TN, TR, TT, TZ, UA, UG,  
UZ, VC, VN, YU, ZA, ZM, ZW only*): ASTRAZENECA  
AB [SE/SE]; Sodertalje, S-151 85 (SE).

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(71) Applicant (*for MG only*): ASTRAZENECA UK LIM-  
ITED [GB/GB]; 15 Stanhope Gate, London, Greater Lon-  
don W1K 1LN (GB).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): CARTLIDGE, Sue,

(54) Title: THE USE OF AN EPITOPE OF VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR KDR/FLK-1

(57) Abstract: The present invention relates to the use of the epitope which comprises the tyrosine at position 1214 in the amino acid sequence of the vascular endothelial growth factor receptor, KDR/Flk-1, as a marker in the measurement of a change in the activation state of the KDR/Flk-1 receptor and to probes, such as antibodies, which recognise said epitope. The invention also relates to the use of KDR/Flk-1 epitope Y1214 as a marker in the detection of and/or measurement of the level of the KDR/Flk-1 receptor and to assays which utilise the use of the Y1214 epitope and to compounds derived from said assays.

WO 03/078465 A1